

Specific gravity of water at the different degrees of heat.

Heat.	Specific gravity.																		
30°	1,00074	35°	1,00090	40°	1,00094	45°	1,00086	50°	1,00068	55°	1,00038	60°	1,00000	65°	,99950	70°	,99894	75°	,99830
31°	1,00078	36°	1,00092	41°	1,00093	46°	1,00083	51°	1,00063	56°	1,00031	61°	,99991	66°	,99939	71°	,99882	76°	,99816
32°	1,00082	37°	1,00093	42°	1,00092	47°	1,00080	52°	1,00057	57°	1,00024	62°	,99981	67°	,99928	72°	,99869	77°	,99802
33°	1,00085	38°	1,00094	43°	1,00090	48°	1,00076	53°	1,00051	58°	1,00016	63°	,99971	68°	,99917	73°	,99856	78°	,99788
34°	1,00088	39°	1,00094	44°	1,00088	49°	1,00072	54°	1,00045	59°	1,00008	64°	,99961	69°	,99906	74°	,99843	79°	,99774
																			,99759

Although the titles of the Columns in the preceding Tables, with what has been said in the introductory discourse, may render the Tables sufficiently obvious to the generality of readers, yet to some perhaps an example may be necessary; I shall therefore shew in what manner the quantity by measure of pure Spirit of ,825 specific gravity at 60° of heat, may readily be found by the help of these Tables.—In order to which, we must know the heat, the specific gravity, and quantity of spirit which the vessel contains.

EXAMPLE. Suppose the heat to be 35°, the specific gravity ,909, and the quantity of spirit 138,99 measures.

Under 35° of heat, and in Column II. of specific gravity, find ,909; and in the same horizontal line, take out from Column VIII., the decimal multiplier ,7297, by which multiply 138,99, cutting off as many figures to the right as there are decimals in both factors; then we shall have 101,421003 for the measures of pure spirit, of the specific gravity ,825 at 60° of heat.

Now a mere inspection of the Columns in the Tables will shew that a spirit of that strength was obtained, by adding 51 parts of water by weight to 100 parts of spirit, as in Column I. which produced the specific gravity found, in the same horizontal line, Column II. It will as readily be seen, that the same specific gravity results from adding together their equivalents in measure, Columns III. and IV. and that Column V. contains the quantity, which the two quantities really measure after the mixture has been made.

ERRATA.

Page 281, column IV. line 34, for 126,12, read 125,12.

283, — I. — 17, for 100 + 54, read 100 + 34.

Ibid. — IV. — 34, for 126,05, read 125,05.

Ibid. — V. — 2 from bottom, for 4886,96, read 4286,96.

285, — VIII. — 23, for ,5046, read ,5056.

286, — IV. — 8 from bottom, for 77,99, read 76,99.

287, — VIII. — 23, for ,5044, read ,5054.

289, — II. — 28, for ,95485, read ,95385.

290, — IV. — 1 dele 0,84.